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<u>12/23/03</u>	
Signed:  Donald R. McKenna	

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No.	:	10/606,201	Confirmation No.:
Applicant	:	Tammy Burd Mehta et al.	
Filed	:	June 25, 2003	
TC/A.U.	:	1744	
Examiner	:	Not yet assigned	
Docket No.	:	100/05231	
Customer No.	:	021569	
Title	:	Manipulation of Microparticles in Microfluidic Systems	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

The references cited on the attached form PTO-1449 are being called to the attention of the Examiner. This application is a continuation of U.S. Patent application number 09/510,626, filed February 22, 2000. All references cited in the attached form 1449 have been previously cited in the parent application. Copies of documents are therefore not being provided pursuant to 37 CFR §1.98(d). If copies of the references are not available to the Examiner, the Examiner is invited to contact the undersigned.

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR §1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no

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representation is made that a search has been conducted or that this statement encompasses all possible relevant information.

Applicants believe that no fee is required for submission of this statement, since it is being submitted within three months of the filing date or prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to charge such fee to Deposit Account No. 03-0177. Please charge any additional fees or credit any overpayment to the above-noted deposit account.

Respectfully submitted,



Donald R. McKenna
Reg. No. 44,922

CALIPER TECHNOLOGIES CORP.
605 Fairchild Drive
Mountain View, CA 94043
Tel: 650-623-0737
Fax: 650-623-0504

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Substitute for form 1449A/PTO			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	10/606201
			Filing Date	June 25, 2003
			First Named Inventor	Tammy Burd Mehta
			Art Unit	1639
			Examiner Name	My Chau Tran
Sheet	of		Attorney Docket Number	100/05231

U.S. PATENT DOCUMENTS				
Examiner Initials	Cite No.	Document No. Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	AA	US-4,390,403	06-28-1983	Batchelder
	AB	US-4,863,849	09-05-1989	Malemede
	AC	US-4,908,112	03-13-1990	Pace
	AD	US-4,971,903	11-20-1990	Hyman
	AE	US-5,122,614	06-16-1992	Zalipsky
	AF	US-5,126,022	06-30-1992	Soane et al.
	AG	US-5,187,085	02-16-1993	Lee et al.
	AH	US-5,202,231	04-13-1993	Drmanac et al.
	AI	US-5,302,509	04-12-1994	Cheeseman
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	AK	US-5,332,666	07-26-1994	Prober et al.
	AL	US-5,498,392	08-12-1996	Wilding et al.
	AM	US-5,525,711	06-11-1996	Hawkins et al.
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	AO	US-5,585,069	12-17-1996	Zanzucchi et al.
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	AU	US-5,650,294	07-22-1997	Dolence et al.
	AV	US-5,659,939	08-05-1997	Hollis, et al.
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	AX	US-5,719,060	02-17-1998	Hutchens et al.
	AY	US-5,747,349	05-05-1998	van den Engh et al.
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	BA	US-5,755,942	05-26-1998	Zanzucchi et al.
Examiner Signature			Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Modified) PTO/SB/08A (10-01)
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			First Named Inventor	Tammy Burd Mehta
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			Examiner Name	My Chau Tran
Sheet	of		Attorney Docket Number	100/05231

BB	US-5,779,868	07-14-1998	Parce et al.	
BC	US-5,798,210	08-25-1998	Canard	
BD	US-5,800,690	09-01-1998	Chow et al.	
BE	US-5,842,787	12-01-1998	Kopf-Sill et al.	
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BX	US-5,965,410	10-12-1999	Chow et al.	
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CC	US-6,001,231	12-14-1999	Kopf-Sill	
CD	US-6,004,515	12-21-1999	Parce et al.	
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		First Named Inventor	Tammy Burd Mehta
		Art Unit	1639
		Examiner Name	My Chau Tran
Sheet	of	Attorney Docket Number	100/05231

CE	US-6,007,690	12-28-1999	Nelson et al.	
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CG	US-6,012,902	01-11-2000	Parce	
CH	US-6,042,721	03-28-2000	Dubrow	
CI	US-6,046,056	04-04-2000	Parce et al.	
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CO	US-6,306,659	10-23-2001	Parce et al.	
CP	US-20010035351	11-01-2001	Simpson et al.	

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Examiner Initials	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code - Number - Kind Code (if known)				
CQ	WO-9604547		02-15-1996	Lockheed Martin		
CR	WO-9702357		01-23-1997	Affymetrix, Inc.		
CS	WO-9800231		01-08-1998	Caliper		
CT	WO-9800705		01-08-1998	Caliper		
CU	WO-9800707		01-08-1998	Caliper		
CV	WO-9802728		01-22-1998	Caliper		
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CX	WO-9822811		05-28-1998	Caliper		
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DA	WO-9846438		10-22-1998	Caliper		
DB	WO-9849548		11-05-1998	Caliper		
DC	WO-9855852		12-10-1998	Caliper		
DD	WO-9856505		12-17-1998	Caliper		

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			Examiner Name	My Chau Tran
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	DE	WO-9856956	12-17-1998	Caliper	
	DF	WO-9900649	01-07-1999	Caliper	
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	DJ	WO-9919056	04-22-1999	Caliper	
	DK	WO-9919516	04-22-1999	Caliper	
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	DM	WO-9931495	06-24-1999	Caliper	
	DN	WO-9934205	07-08-1999	Caliper	
	DO	WO-9943432	09-02-1999	Caliper	
	DP	WO-9944217	09-02-1999	Caliper	
	DQ	WO-9956954	11-11-1999	Caliper	
	DR	WO-0009753	02-24-2000	Caliper	
	DS	EP 376611	07-04-1990	Leland Stanford Junior University	
	DT	EP 620432	10-19-1994	CIBA-GEIGY AG	
	DU	JP-10-53099	08-05-1998	Hitachi, Ltd.	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers(s), publisher, city and/or country where published.	T
DV	BESKIN et al. "On the mechanism of the modular primer effect" <u>Nucleic Acids Research</u> (1995) 23 (15):2881-2885		
DW	BOUSSE et al. "Parallelism in integrated fluidic circuits," <u>SPIE</u> (1998) 3259:179-186		
DX	BRENNER, S. et al. "Gene expression analysis by massively parallel signature sequencing (MPSS) on microbead arrays". <u>NATURE BIOTECHNOLOGY</u> (2000) 18:630-634		
DY	BRUCHEZ et al. "Semiconductor Nanocrystals as Fluorescent Biological Labels" <u>Science</u> (1998) 281:2013-2016		
DZ	BULT et al. "Complete Genome Sequence of the Methanogenic Archaeon, <i>Methanococcus jannaschii</i> " <u>Science</u> (1996) 273:1058-1073		

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(Modified) PTO/SB/08A (10-01)
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		First Named Inventor	Tammy Burd Mehta
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		100/05231	

EA	CHEE et al "Accessing Genetic Information with High-Density DNA Arrays" <i>Science</i> (1996) 274:610-614
EB	CHOU, Hou-Pu et al. "A microfabricated device for sizing and sorting DNA molecules", <i>Proc. Natl. Acad. Sci</i> (1999) 26:11-13
EC	COHEN, C.B. et al., "A Microchip-Based Enzyme Assay for Protein Kinase A," <i>Anal. Chem.</i> (1999) 273:89-97
ED	COUTLEE et al. "Nonisotopic Detection of RNA in an Enzyme Immunossay Using a Monoclonal Antibody against DNA-RNA Hybrids" <i>Analytical Biochemistry</i> (1989) 181:153-162
EE	DASGUPTA, P.K. et al., "Electroosmosis: A Reliable Fluid Propulsion System for Flow Injection Analysis," <i>Anal. Chem.</i> (1994) 66:1792-1798
EF	DRMANAC et al. "Accurate sequencing by hybridization for DNA diagnostics and individual genomics," <i>Nature Biotechnology</i> (1998) 16:54-58,
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EH	ECKSTEIN et al. "Phosphorothioates in molecular biology" <i>Trends in Biochem</i> (1989) 14:97
EI	EFFENHAUSER et al. "Glass Chips for High-Speed Capillary Electrophoresis Separations with Submicrometer Plate Heights" <i>Anal. Chem.</i> (1993) 65:2637-2642
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EM	FODOR et al. "Light-Directed, Spatially Addressable Parallel Chemical Synthesis" <i>Science</i> (1991) 251:767-777
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EO	FODOR "Massively Parallel Genomics" <i>Science</i> (1997) 277:393-395
EP	FRASER et al. "The Minimal Gene Complement of <i>Mycoplasma genitalium</i> " <i>Science</i> (1995) 270:397-403
EQ	GAY et al. <i>J. Chem. Soc.</i> (1970) 8:1123
ER	HARRIS, J.M "Laboratory Synthesis of Polyethylene Glycol Derivatives" <i>Rev. Macromol. Chem. Phys.</i> , (1985) C25(3):325-373
ES	HARRISON et al. "Capillary Electrophoresis and Sample Injection Systems Integrated on a Planar Glass Chip" <i>Anal. Chem.</i> (1992) 64:1926-1932.

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet _____ of _____		First Named Inventor	Tammy Burd Mehta
		Art Unit	1639
		Examiner Name	My Chau Tran
		Attorney Docket Number	100/05231

ET	HARRISON et al. "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," <i>Science</i> (1993) 261:895-897
EU	HARRISON et al. "Towards Miniaturized Electrophoresis and Chemical System Analysis Systems on Silicon: An Alternative to Chemical Sensors," <i>Sensors and Actuators</i> (1993) 10:107-116
EV	ISHII et al. "Bead-Based Sandwich Hybridization Characteristics of Oligonucleotide-Alkaline Phosphatase Conjugates and Their Potential for Quantitating Target RNA Sequences" <i>Bioconjugate chem.</i> American Chemical Society (1993) 4:34-41
EW	JACOBSON et al. "Open Channel Electrophoresis on a Microchip" <i>Anal. Chem.</i> (1994) 66:2369-2373
EX	JACOBSON et al. "Precolumn Reactions with Electrophoretic Analysis Integrated on Microchip" <i>Anal. Chem.</i> (1994) 66:4127-4132
EY	JACOBSON et al. "Effects of Injection Schemes and Column Geometry on the Performance of Microchip Electrophoresis Devices" <i>Anal. Chem.</i> (1994) 66:1107-1113
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FC	KOPF-SILL et al. "Complexity and performance of on-chip biochemical assays," <i>SPIE</i> (1997) 2978:172-179 February 10-11
FD	MANZ, A. et al., "Electroosmotic pumping and electrophoretic separations for miniaturized chemical analysis systems," <i>J. Micromech. Microeng.</i> (1994) 4:257-265
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FF	NIE et al. "Quantum Dot Bioconjugates for Ultrasensitive Nonisotopic Detection" <i>Science</i> (1998) 281:2016-2018.
FG	NYREN et al "Solid Phase DNA Minisequencing by an Enzymatic Luminescent Inorganic Pyrophosphate Detection Assay," <i>Anal. Biochem.</i> (1993) 208:171-175
FH	PORTER et al. "Direct PCR sequencing with boronated nucleotides" <i>Nucleic Acids Research</i> (1997) 25 (8):1611-1617
FI	RAJA et al. "DNA sequencing using differential extension with nucleotide subsets (DENS)" <i>Nucleic Acids Research</i> (1997) 25 (4):800-805

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		Examiner Name	My Chau Tran
		Attorney Docket Number	100/06231

FJ	RAMSEY, J.M. et al., "Microfabricated chemical measurement systems," Nature Med. (1995) 1:1093-1098
FK	RICH et al. "Preparation of a New <i>o</i> -Nitrobenzyl Resin for Solid-Phase Synthesis of tert-Butyloxycarbonyl-Protected Peptide Acids" J. Am. Chem. Soc. (1975) 97:1575-1579.
FL	RONAGHI, M. et al. "Real-Time DNA Sequencing Using Detection of Pyrophosphate Release" Anal. Biochem. (1996) 242:84-89
FM	RONAGHI, M. et al. "A Sequencing Method Based on Real Time Pyrophosphate" Science (1998) 281:363-364
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FS	TOMB et al. "The complete genome sequence of the gastric pathogen <i>Helicobacter pylori</i> " Nature (1997) 388-547
FT	TYAGI, S. "Taking a census of mRNA populations with microbeads", NATURE, (June 2000) 18:597-598.
FU	WANG "Solid Phase Synthesis of Protected Peptides via photolytic Cleavage of the α -Methylphenacyl Ester Anchoring Linkage J. Org. Chem. (1976) 41:3258
FV	ZALIPSKY et al. "Attachment of Drugs to Polyethylene Glycols" Eur. Polym. J., (1983) 19(12), 1177-1183
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